



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

644.4112

Job Sheet 181917



Part No: 644.4112

Job Qty: 30 ea

Part Name: Spacer



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 8/13/18

Job Tracking No:

Due Date: 8/31/18

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG 644.4100 Rev F2 IPP REV:A NEW ISSUE 16-12-06 JLM VERIFIED BY:DD IPP REV:B Change mat'l size JFS 17-05-19 Verified by:DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Start up Operation	30 Ea	8/31/18	8/31/18	0.00	0.00	Start Up Machining-4		JBD 15/9/20
110	Lathe Conv	30 pcs	8/31/18	8/31/18	0.00	30.00	Lathe Conv-1		
120	QC	30 pcs	8/31/18	8/31/18	0.00	0.00	QC2 Machining-1		
130	QC	30 pcs	8/31/18	8/31/18	0.00	0.00	QC8 Machining-2		B-18-09-24
140	Outsource	30 pcs	8/31/18	8/31/18			ATG001-VC	8	SEP 25 2018
150	Packaging	30 pcs	8/31/18	8/31/18	0.00	0.00	Packaging2		OCT 03 2018
160	QC	30 pcs	8/31/18	8/31/18	0.00	0.00	QC6		68
170	SprayPaint	30 pcs	8/31/18	8/31/18	0.00	3.00	Spray Paint		OCT 07 2018
180	QC	30 pcs	8/31/18	8/31/18	0.00	0.00	QC14		OCT 09 2018
190	Packaging	30 pcs	8/31/18	8/31/18	0.00	0.00	Packaging3-1		OCT 09 2018
200	QC21-SA	30 Ea	8/31/18	8/31/18	0.00	0.00	QC21		OCT 09 2018

Part Op 110 - 1-TURN AS PER DWG DWG REV: *****CHECK NOTE 7***** 2- deburr and break all sharp

Descriptions: edges

140 - 1-ISSUE P/O TO ATG 133 2-Anodize Black -MPP-172 Section 2.1 -Hard Anodize IAW Mil-A-8625

Type 3 Class 2 3-Certification of Conformity is required

170 - PRIME AS PER DWG AND NOTE 4 BATCH: 138876 PAINT AS PER DWG AND NOTE 4

BATCH: 138873

190 - ***IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV***

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
M6061T6R0.625	6061-T6 Round Bar .625"	9 ft (.3 ea)	100-Start up Operation	

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Start up Operation	M6061T6R0.625	9	129	0

Part Specifications

Specifications could not be found.

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td style="width: 25%;">Skid-tube ☐</td> <td style="width: 25%;">Cross tube ☐</td> <td style="width: 25%;">Water Jet ☐</td> <td style="width: 25%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> </table>			Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐
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Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐													
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐													
Date : _____	Step #: _____	MRB (QSI042) Approval														
Description Work Order																
DART Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 CANADA TEL.: 1 813 832-8200 Email: sales@dartaero.com www.dartaerospace.com Container No: S113173 Part: 644.4112 Job No: 181917 Serial No/Batch: S113173 Revision: F2 Inspector: Exp Date: Instructions: Date: 09/24/18		Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____														
Root Cause <table style="width: 100%;"> <tr> <td style="width: 50%;"> Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ </td> <td style="width: 50%;"> No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐ </td> </tr> </table>		Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	<table style="width: 100%;"> <tr> <td style="width: 33%;"> Centre not concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ </td> <td style="width: 33%;"> Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ </td> <td style="width: 33%;"> Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ </td> </tr> </table>			Centre not concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐							
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Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO041133

Supplier: ATG001-VC
A.T.G. Industries Inc
731 INDUSTRIELLE ROAD
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalande, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO041133
PO Date: 9/25/18
Due Date: 10/18/18
**Purchase Order
Revision:**
Revision Date:
Ship-To Contact: Tsimiklis, ChrisoulaPhone:

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	178993	RBE350A94-3700-C-07	Top -Issue P/O to ATG: PO -ANODIZE COLOR RED, PER IAW MIL-A-8625 TYPE-2 CLASS-2, Water sealant As Per Dwg RBE350A94-3700-C-07 Rev 6 -Certificate of Conformity is required	Firmed	-	10/18/18	40 pcs	0 pcs	40 pcs	\$4.55/pcs	\$182.00
2	181383	647.1610	Wiper Deflector Fwd Issue P/O to ATG : 1- Hard Anodize, Color Black and Prime as per Dwg, 647.1600	Firmed	-	10/18/18	40 pcs	0 pcs	40 pcs	\$11.50/pcs	\$460.00
3	182779	D5575-1	Deflector, Lower Cable Cutter : Various STC's Issue P/O to ATG : Black Anodize & Prime as per Dwg. D5575-1 Certification of Conformity is required.	Firmed	-	10/18/18	2 pcs	0 pcs	2 pcs	\$9.30/pcs	\$18.60



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PURCHASE ORDER **PO041133**

Items											
Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4	181917	644.4112	Spacer 1-ISSUE P/O TO ATG: _____ 2-Anodize Black -MPP-172 Section 2.1 -Hard Anodize IAW Mil-A- 8625 Type 3 Class 2 3-Certification of Conformity is required	Firmed	-	10/18/18	30 pcs	0 pcs	30 pcs	\$5.75/pcs	\$172.50
5	181392	647.7612	Breakaway Tip Issue P/O to ATG : _____ Hard Anodize, Color Black and Prime as Per Dwg 647.7600	Firmed	-	10/18/18	50 pcs	0 pcs	50 pcs	\$11.50/pcs	\$575.00
6	182775	D5576-1	Deflector, Upper, Cable Cutter : Various STC's Issue P/O to ATG : _____ Black Anodize & Prime as per Dwg. D5576 Certification of Conformity is required.	Firmed	-	10/18/18	2 pcs	0 pcs	2 pcs	\$10.30/pcs	\$20.60
7	181920	644.4120	Spacer, Crosstube 1-ISSUE P/O TO ATG: _____ 2-Anodize Black -MPP-172 Section 2.1 -Hard Anodize IAW Mil-A- 8625 Type 3 Class 2 3-Certification of Conformity is required	Firmed	-	10/18/18	30 pcs	0 pcs	30 pcs	\$5.75/pcs	\$172.50
Grand Total:											\$1,601.20

DAS
68
9-89

30 X OCT 03 2018

30 X OCT 03 2018



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Canada

Tel (613) 632-5200

PURCHASE ORDER
PO041133

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 9/26/18 2:16 PM dart.tsimiklis.chrisoula



A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 916174

Date: 04-Oct-18

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chrisoula Tsimiklis
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		ATG Delivery	
Quantity	Description		
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.		
30 ea	Part: 644.4112 Spacer Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils). Job: 23813	Rev: 1 PO: PO041133 Line: 4	DAS 9 9-89 DAS 68 9-89
30 ea	Part: 644.4120 Spacer, Crosstube Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils). Job: 23816	Rev: F PO: PO041133 Line: 7	
CERTIFICATE OF CONFORMANCE A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements. Date: <u>4/10/18</u> Certified Signature: _____ Receiver Signature: _____ A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited. Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt.			
Made in Canada.			

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT
THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

.06 X 45.0°

3.54 $\triangle 7$

$\phi .51$
TYP

$\phi .63$

$\phi .272$ THRU

644.4112
SPACER

ORIGINAL DATE 08-01-05	APICAL INDUSTRIES	
DRAWN BY D. PARSON	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKED BY S. JOSEPH 08-29-05	PIVOT STEP ASSY	
CONTRACT NO.	SHEET 4 OF 16	REV. F
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS ARE: 3 PLACE DECIMALS $\pm .003$ ANGLES $\pm .5^\circ$	SCALE NONE	